



# PLYFAST® #14 FASTENER

**Description:** PLYFAST® #14 Fasteners are formed from corrosion resistant steel and are designed to secure insulation and base membranes to standard steel (18 ga.–22 ga.), wood and structural concrete decks. It is available in lengths from 1-1/4-in. to 12-in. The PlyFast #14 Fastener is also Factory Mutual approved. Head Style: Available - #3 Phillips Truss Head.

### Features & Benefits:

- Available with #3 Phillips truss head.
- Heavier shank and thread diameters for maximum strength and pullout resistance.
- For insulation/membrane attachment to steel, wood and structural concrete.
- FM approved.

**Corrosion Coating:** Corrosion resistant coating exhibits less than 15% red rust which meets or exceeds FM 4470 corrosion standards and withstands 30 cycles of the Kesternich DIN 50018 SFW 2.0 test.

**Application:** PlyFast #14 Fasteners must penetrate steel decks a minimum of 3/4-in., wood plank decks a minimum of 1-in. and 1/2-in. through the underside for plywood decks. The fastener must penetrate structural concrete decks a minimum of 1-in. Pre-drill a 3/16-in pilot hole at least 1/2-in deeper than fastener embedment using a carbide tip SDS or straight bit shank. Using a screw gun, drive the fastener until a slight depression is seen around the plate, or with very rigid insulation boards, watch for the plate to dimple. **Note: Care must be taken not to overdrive the fastener and fracture the insulation facer.** Fastener must be tight enough so that the plate does not turn. For steel decks, Factory Mutual requires that the fastener penetrate the deck at the top flute.

**Plate:** Uses PlyFast® 3” Metal Stress Plate (sold separately).

**Tools:** For best installation result, use a variable speed 0–2500 RPM screw gun. Always use appropriate drive bit for fastener head. To speed installation, appropriate fastener parts are available pre-assembled or can be used with matching insulation plates, belted systems, or auto-feed installation tools. See PlyFast® Fastener Information Guide for specific details.

**Approvals:** PlyFast® #14 Fastener is listed or approved with Factory Mutual (FM). Contact U.S. Ply, Inc. for specific/applicable codes.

**Fastening Pattern:** Consult U.S. Ply Technical

Department and/or Factory Mutual requirements for recommended patterns in normal, exposed, and high wind velocity areas.

### Product Data: PLYFAST® #14 Fastener Phillips (typical)

Property	#14 Fastener D	#14 Fastener T
Head Type	#3 Phillips	#3 Phillips
Head Height	.118"	.110"
Head Dia. Max	.448"	.438"
Thread Major Dia.	.238"	.237"
Shank Dia.	.180"	.180"
Tensile Strength (lbs ult)	3600	3200
Shear Strength	2630	2200
Corrosion Resistance	< 15% Red Rust after 30 cycles	< 15% Red Rust after 30 cycles

**CORPORATE HEADQUARTERS: P.O. BOX 11740, FORT WORTH, TEXAS 76110**



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### Average Ultimate Pullout Values in Corrugated Steel Deck Substrates

Fastener	Thickness	24 ga.	22 ga.		20 ga.			18 ga.			
	Yield Strength	36.5 ksi	33.0 ksi	80.0 ksi	102.0 ksi	33.0 ksi	80.0 ksi	102.0 ksi	33.0 ksi	80.0 ksi	102.0 ksi
#14 Fastener D	Pullout (lbf)		435	529			630			900	
#14 Fastener T	Pullout (lbf)	255	315	480	560	420	615	710	675	885	985

### Average Ultimate Pullout Values in Concrete & Wood Deck Substrates

Fastener	Thickness	Plywood			OSB			Concrete
	Yield Strength	15/32"	19/32"	23/32"	15/32"	19/32"	23/32"	3000 psi
#14 Fastener D	Pullout (lbf)	356	451	597	272	468	386	490
#14 Fastener T	Pullout (lbf)	360	410	730	290	310	410	450

### Product Data: PLYFAST® Ordering Information (typical):

Product	Screw Length*	Pieces/Box	Weight/Box # 14 - D	Pieces/Box	Weight/Box # 14 - T
#14 Fastener-D	1-1/4"	1000	12 lbs	xx	xx
#14 Fastener-T	1-1/2"	xx	xx	1000	12.9 lbs
#14 Fastener-D	2"	1000		1000	
#14 Fastener-T			19 lbs		15.5 lbs
#14 Fastener-T	2-1/2"	xx	xx	1000	19.4 lbs
#14 Fastener-D	3"	1000		1000	
#14 Fastener-T			24 lbs		23.7 lbs
#14 Fastener-T	3-1/2"	xx	xx	1000	26.4 lbs
#14 Fastener-D	4"	1000		1000	
#14 Fastener-T			30 lbs		30.9 lbs
#14 Fastener-T	4-1/2"	xx	xx	1000	33.6 lbs
#14 Fastener-D	5"	1000		1000	
#14 Fastener-T			45 lbs		37.3 lbs
#14 Fastener-T	5-1/2"	xx	xx	1000	40.8 lbs
#14 Fastener-D	6"	1000		1000	
#14 Fastener-T			46 lbs		37.1 lbs
#14 Fastener-D	7"	500		500	
#14 Fastener-T			28 lbs		25.9 lbs
#14 Fastener-D	8"	500		500	
#14 Fastener-T			31 lbs		29.7 lbs
#14 Fastener-D	9"	500		250	
#14 Fastener-T			34 lbs		16.6 lbs
#14 Fastener-D	10"	500		250	
#14 Fastener-T			38 lbs		18.5 lbs
#14 Fastener-D	11"	500		250	
#14 Fastener-T			41 lbs		20.1 lbs
#14 Fastener-D	12"	500		250	
#14 Fastener-T			45 lb		22.0 lbs

All values given are approximate and are subject to change without notice. There is no implied or express warranty given through these values or statements, nor are there any assertions that the product purchased has been individually tested to conform to these standards. Testing is performed on a random basis by "in-house" and independent "third party" evaluation for the purpose of classification and or approval. Acceptance, purchase and selection of these products are the sole responsibility of the buyer or buyer's representative. We assume no responsibility for coverage, performance or injuries resulting from use. Liability, if any, is limited to replacement of the product. NO OTHER WARRANTY OR GUARANTEE OF ANY KIND IS MADE BY U.S. PLY, INC. EXPRESSED OR IMPLIED; STATUTORY, BY OPERATION OF LAW, OR OTHERWISE, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.